Claim Amendments

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. - 69. (Canceled)

70. (Currently Amended) A method comprising:

generating, at a video server, a frame index for a video stream, the frame index comprising a plurality of frame index entries corresponding to a plurality of frames of the video stream, each frame index entry comprising:

an identifier of a frame type of a corresponding frame; and
an indicator of whether the corresponding frame is critical to the video stream;
and

wherein a first set of frames of the plurality of frames is to be displayed prior to a second set of frames of the plurality of frames in a forward presentation of the video stream:

receiving, at the video server, a first presentation request for the video stream from a display client via a network, the video server remote to the display client, the first presentation request comprising a request for reverse playback:

determining, at the video server, a first subset of frames of the first set and a second subset of the frames of the second set based on the frame index in response to the first presentation request, the first subset comprising an intra-coded frame and at least one forward-predicted frame of the first set of frames and the second subset comprising an intra-coded frame and at least one forward-predicted frame of the second set of frames:

transmitting the second subset of frames to the display client via the network; and transmitting the first subset of frames to the display client via the network subsequent to transmitting the second subset of frames.

71. (Canceled)

- 72. (Previously Presented) The method of claim 71, wherein each frame index entry further comprises an offset value identifying a starting location of data representative of the corresponding frame within a file representative of the video stream and a size value representative of a size of the data representative of the corresponding frame.
- 73. (Previously Presented) The method of claim 70, wherein generating the frame index comprises:

receiving, at the video server, an encoded data stream representative of the video stream; processing, at the video server, the encoded data stream to identify each frame of the video stream; and

generating, at the video server, a frame index entry of the frame index for each frame identified during processing; and

storing the encoded data stream.

74. (Previously Presented) The method of claim 70, wherein generating the frame index comprises:

receiving, at the video server, an unencoded data stream representative of the video stream:

encoding, at the video server, the unencoded data stream to generate an encoded data stream representative of the video stream; and

generating, at the video server, a frame index entry of the frame index for each identified frame of the encoded video stream; and

storing the encoded video stream.

- 75. (Previously Presented) The method of claim 70, further comprising:
- receiving, at the video server, a second presentation request for the video stream from the display client via the network, the second presentation request comprising a request for a fast forward playback;
- determining, at the video server, a third subset of frames of the first set and a fourth subset of frames of the second set based on the frame index in response to the second presentation request;

transmitting the third subset of frames to the display client via the network; and

transmitting the fourth subset of frames the display client via the network subsequent to transmitting the third subset of frames.

- 76. (Canceled)
- 77. (Previously Presented) The method of claim 75, wherein the third subset includes only intra-coded frames and forward-predicted frames of the first set and the fourth subset includes only intra-coded frames and forward predicted frames of the second set.
 - 78. (Canceled)
 - 79. (Canceled)
- 80. (Previously Presented) The method of claim 70, wherein the first set of pictures comprises a first Group of Pictures (GOP) and the second set of pictures comprises a second GOP.
 - (Currently Amended) The method of claim 70, further comprising: receiving, at the display client, user input indicating a requested reverse playback of the video stream;

generating, at the display client, the first presentation request based on the user input; transmitting the first presentation request from the display client to the video server via the network:

receiving, at the display client, the second subset of frames;

receiving, at the display client, the first subset of frames subsequent to receiving the [[first]] second subset of frames;

processing, at the display client, the second subset of frames for display; and processing, at the display client, the first subset of frames for display subsequent to display of the second subset of frames.

- 82. (Previously Presented) The method of claim 81, wherein the first subset of frames and second subset of frames are represented by encoded data and processing the first subset of frames and processing the second subset of frames comprises decoding the encoded data.
 - 83. (Previously Presented) The method of claim 70, further comprising: for each frame of at least a portion of the second subset, modifying a presentation time stamp of the frame prior to transmitting the frame to the display client; and for each frame of at least a portion of the first subset, modifying a presentation time stamp of the frame prior to transmitting the frame to the display client.
 - 84. 87. (Canceled)
 - 88. (Currently Amended) A system comprising:
 - a video server coupled to a network, the video server comprising:
 - a recording module to generate a frame index for a video stream, the frame index comprising a plurality of frame index entries corresponding to a plurality of frames of the video stream, each frame index entry comprising:

 an identifier of a frame type of a corresponding frame; and
 an indicator of whether the corresponding frame is critical to the video stream; and
 - wherein a first set of frames of the plurality of frames is to be displayed prior to a second set of frames of the plurality of frames in a forward presentation of the video stream;
 - an interface coupled to the network, the interface to receive a first presentation request for the video stream from a display client via the network, the video server remote to the display client, the first presentation request comprising a request for a reverse playback;
 - a presentation control to determine a first subset of frames of the first set and a
 second subset of the frames of the second set based on the frame index in
 response to the first presentation request, the first subset comprising an
 intra-coded frame and at least one forward-predicted frame of the first set

of frames and the second subset comprising an intra-coded frame and at least one forward-predicted frame of the second set of frames; and the interface further to:

transmit the second subset of frames to the display client via the network;

transmit the first subset of frames to the display client via the network subsequent to transmitting the second subset of frames.

- 89. (Canceled)
- 90. (Previously Presented) The system of claim 89, wherein each frame index entry further comprises an offset value identifying a starting location of data representative of the corresponding frame within a file representative of the video stream and a size value representative of a size of the data representative of the corresponding frame.
- 91. (Previously Presented) The system of claim 88, wherein the recording module is to generate the frame index by:

receiving an encoded data stream representative of the video stream; processing the encoded data stream to identify each frame of the video stream; and generating a frame index entry of the frame index for each identified frame; and storing the encoded data stream at the video server.

92. (Previously Presented) The system of claim 88, wherein the recording module is to generate the frame index by:

receiving an unencoded data stream representative of the video stream;

encoding the unencoded data stream to generate an encoded data stream representative of the video stream; and

generating a frame index entry of the frame index for each identified frame of the encoded video stream; and

storing the encoded video stream at the video server.

93. (Previously Presented) The system of claim 88, wherein:

- the interface further is to receive a second presentation request for the video stream from the display client via the network, the second presentation request comprising a request for fast forward playback;
- the presentation control further is to determine a third subset of frames of the first set and a fourth subset of frames of the second set based on the frame index in response to the second presentation request; and
- the interface further is to:

transmit the third subset of frames to the display client via the network; and transmit the fourth subset of frames to the display client via the network subsequent to transmitting the third subset of frames.

- 94. (Canceled)
- 95. (Previously Presented) The system of claim 93, wherein the third subset includes only intra-coded frames of the first set and the fourth subset includes only intra-coded frames of the second set.
- 96. (Previously Presented) The system of claim 88, wherein the first subset includes only intra-coded frames of the first set and the second subset includes only intra-coded frames of the second set.
 - 97. (Previously Presented) The system of claim 88, wherein
 - the interface further is to receive a second presentation request for the video stream from the display client via the network, the second presentation request comprising a presentation request for a normal playback of the video stream;
 - the presentation control further is to determine a presentation sequence for the plurality of frames based on the frame index in response to the second presentation request; and
 - the interface further is to transmit at least a portion of the plurality of frames having the presentation sequence to the display client via the network.

- 98. (Previously Presented) The system of claim 88, wherein the first set comprises a first Group of Pictures (GOP) and the second set comprises a second GOP.
 - 99. (Previously Presented) The system of claim 88, further comprising:
 - a display client coupled to the network, the display client to:

receive user input indicating a requested reverse playback of the video stream; generate the first presentation request based on the user input;

transmit the first presentation request to the video server via the network;

receive the second subset of frames via the network;

receive the first subset of frames via the network subsequent to receiving the second subset of frames;

process the second subset of frames for display; and

process the first subset of frames for display subsequent to the second subset of frames

- 100. (Previously Presented) The system of claim 99, wherein the first subset of frames is represented by encoded data and processing the first subset of frames comprises decoding the encoded data.
 - 101. (Previously Presented) The system of claim 88, wherein: the presentation control is further to:

for each frame of at least a portion of the second subset, modify a presentation time stamp of the frame prior to transmission of the frame to the display client; and

for each frame of at least a portion of the first subset, modify a presentation time stamp of the frame prior to transmission of the frame to the display client.

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